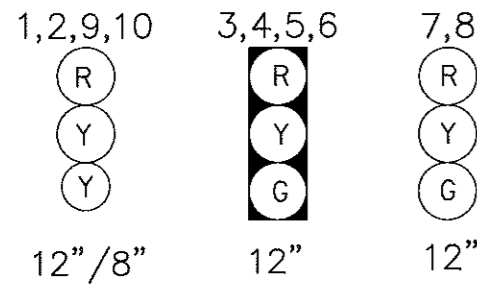


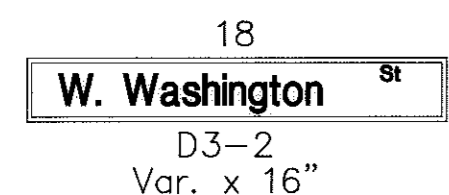
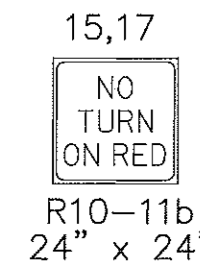
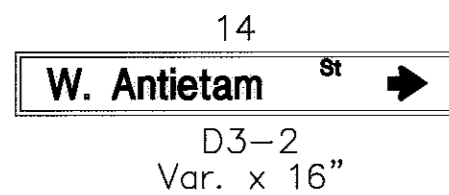
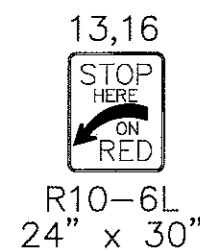
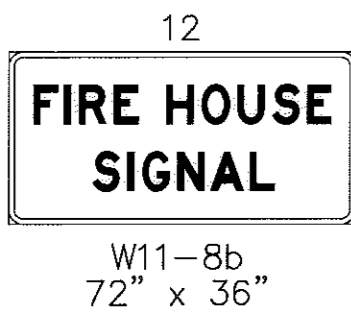
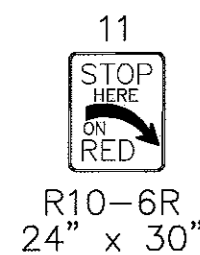
FHWA REGION NO	STATE	FED. AID PROJ. NO	SHEET NO.	TOTAL SHEETS
3	MD.	STPG-218-I(7)E	24	66

U.S. 40 EAST (WASHINGTON AVENUE) IS
ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

SIGNALS



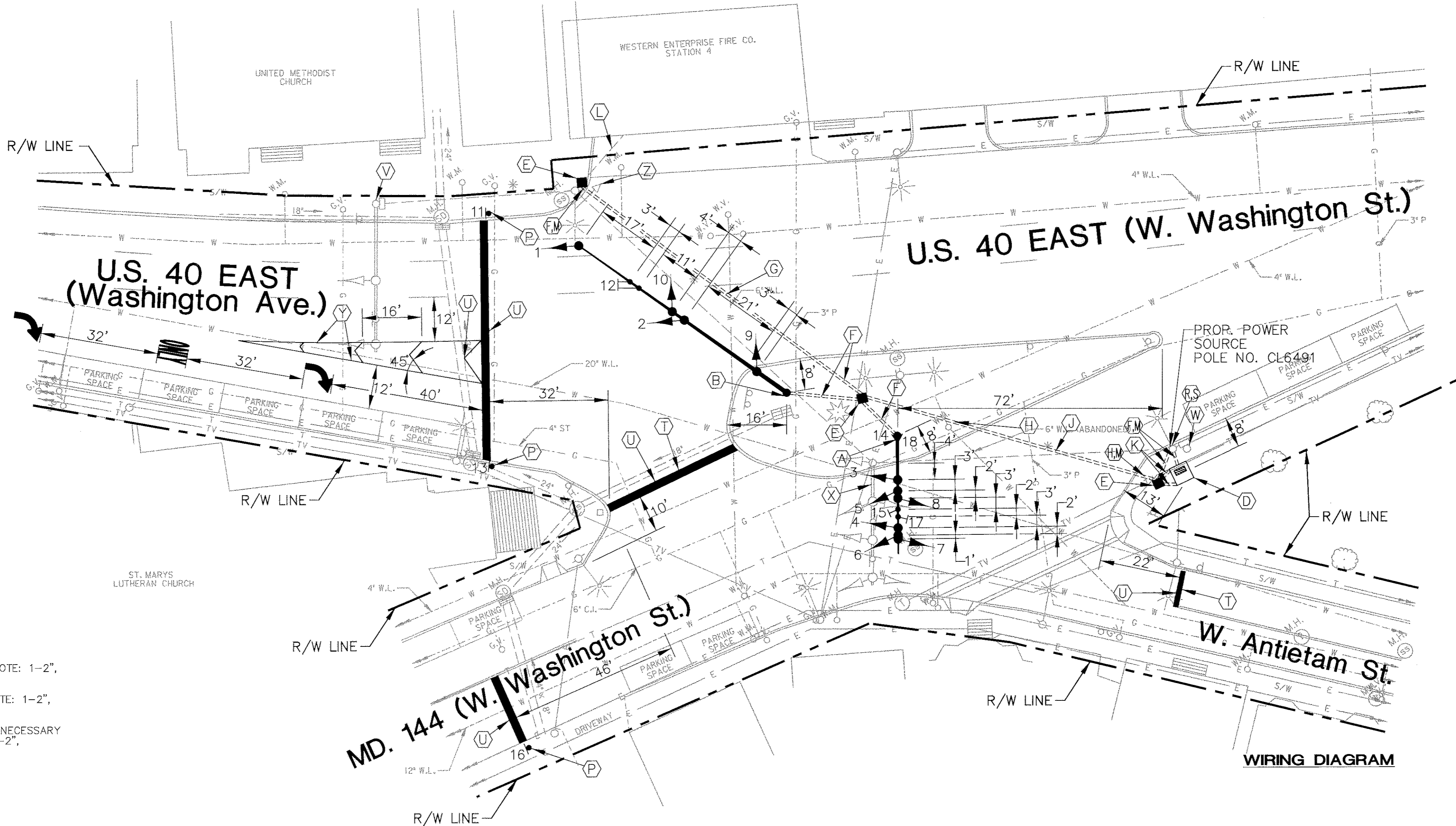
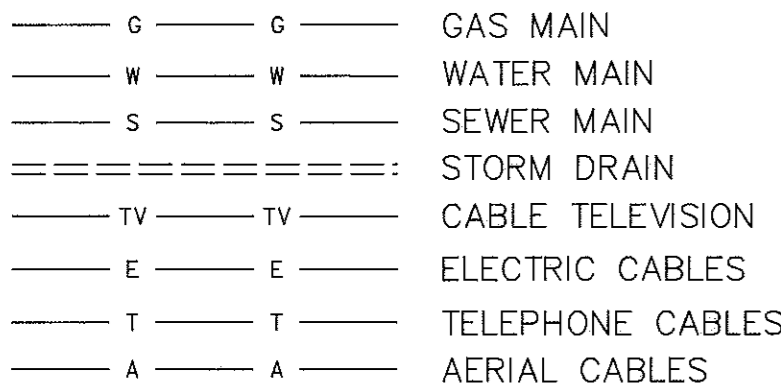
SIGNS



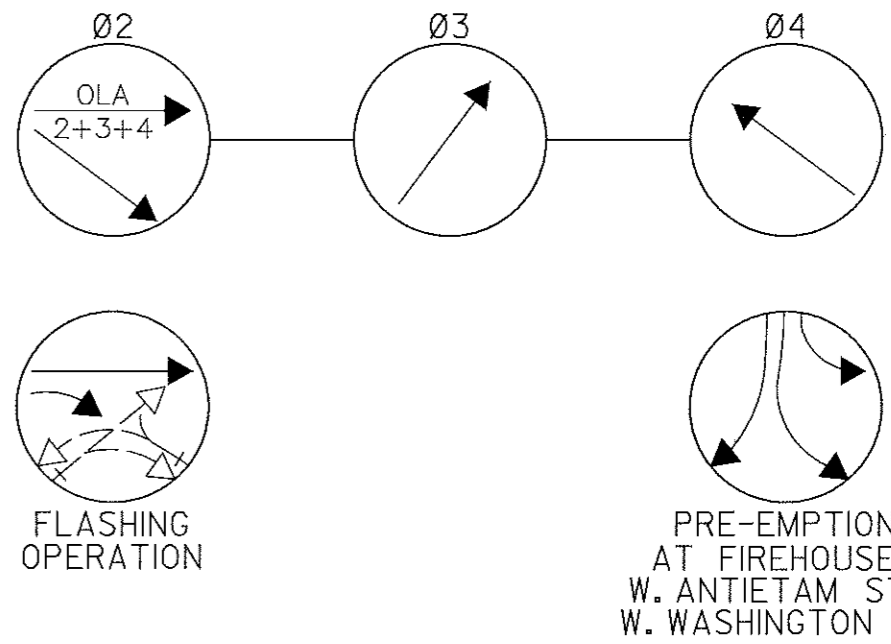
CONSTRUCTION DETAILS

- (A) INSTALL 21' STEEL POLE, 32' MAST ARM, SIGNAL HEADS, AND SIGNS. (NOTE: 1-2", 90-DEGREE P.V.C. BEND).
- (B) INSTALL 21' STEEL POLE, 70' MAST ARM, SIGNAL HEADS, AND SIGN. (NOTE: 1-2", 90-DEGREE P.V.C. BEND).
- (D) INSTALL BASE-MOUNTED CABINET, SIZE #5, AND CONTROLLER WITH ALL NECESSARY EQUIPMENT AS SHOWN (NOTE: 2-4", 90-DEGREE P.V.C. BENDS; AND, 2-2", 90-DEGREE P.V.C. BENDS.)
- (E) INSTALL HANDHOLE.
- (F) INSTALL 2" P.V.C. (SCHEDULE 40) ELECTRICAL CONDUIT (TRENCHED).
- (G) INSTALL 2" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (SLOTTED).
- (H) INSTALL 3" P.V.C. (SCHEDULE 40) ELECTRICAL CONDUIT (TRENCHED).
- (J) INSTALL 3" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (SLOTTED).
- (K) INSTALL 4" P.V.C. (SCHEDULE 40) ELECTRICAL CONDUIT (TRENCHED).
- (L) USE EXISTING CONDUIT. RUN CABLE TO EXISTING JUNCTION BOX INSIDE BUILDING.
- (M) REMOVE AND REPLACE EXISTING SIDEWALK.
- (P) INSTALL GROUND MOUNTED SIGN.
- (R) INSTALL 2" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT - RISER AND 2" WEATHERHEAD.
- (S) INSTALL 10' OF 2" P.V.C.(SCHEDULE 80) ELECTRICAL CONDUIT - RISER AND COIL 25' OF ADDITIONAL CABLE.
- (T) REMOVE EXISTING STOP BAR.
- (U) INSTALL 24" SOLID WHITE LINE.
- (V) REMOVE EXISTING STEEL POLE, MAST ARM, SIGNALS, SIGN AND CONTROLLER CABINET.
- (W) REMOVE EXISTING CONTROLLER, CABINET, PEDESTAL POLE, AND FOUNDATION.
- (X) REMOVE EXISTING STEEL POLE, MAST ARM, SIGNALS, SIGNS, AND FOUNDATION.
- (Y) INSTALL 12" SOLID WHITE LINE
- (Z) REMOVE EXISTING FIRE HOUSE SIGNAL.

UTILITY LEGEND



NEMA PHASING

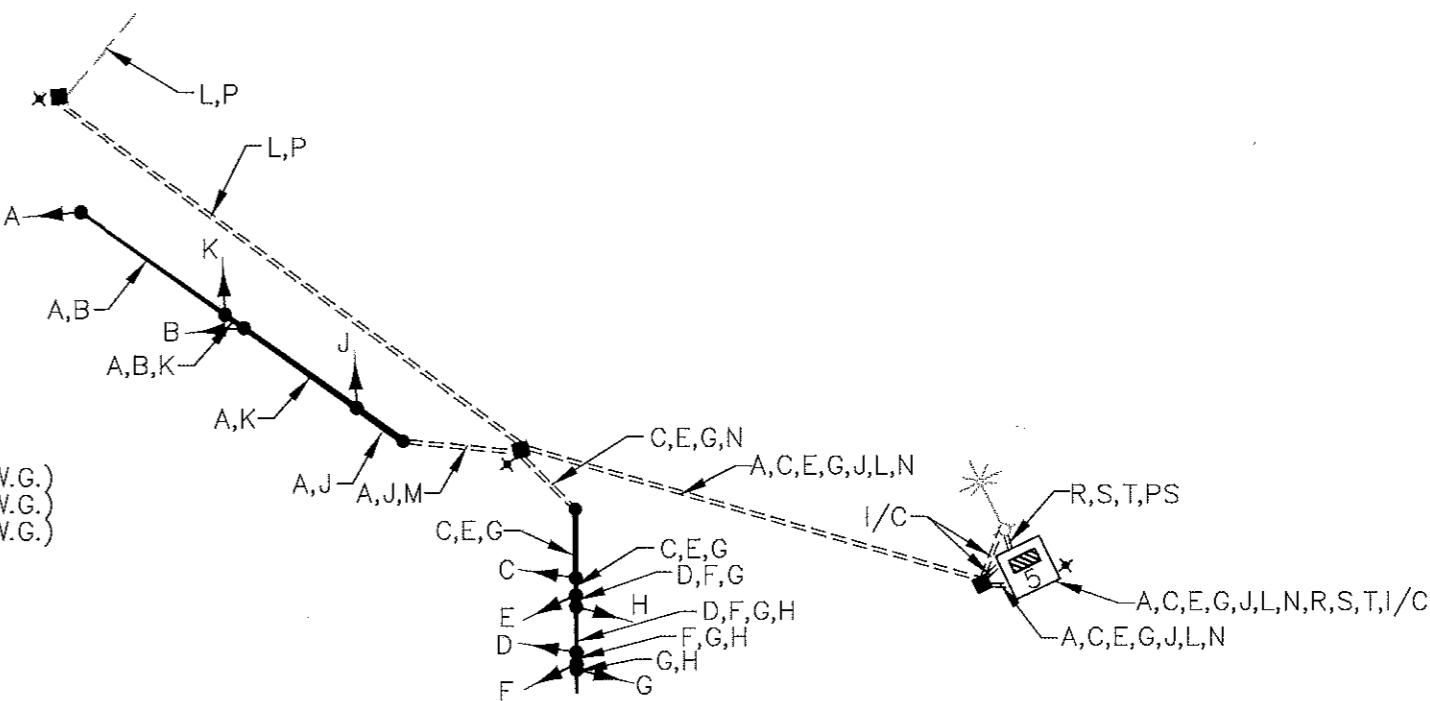


PHASING NOTES:

- 1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY
- 2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY

WIRING LEGEND

- A - 7 CONDUCTOR CABLE (NO. 14 A.W.G.)
- AB - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)
- BCD - 7 CONDUCTOR CABLE (NO. 14 A.W.G.)
- DE - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)
- FG - 7 CONDUCTOR CABLE (NO. 14 A.W.G.)
- GH - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)
- IJK - 7 CONDUCTOR CABLE (NO. 14 A.W.G.)
- LM - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)
- N - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- P - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- R - 1 CONDUCTOR CABLE (NO. 4 A.W.G.)
- S - 1 CONDUCTOR CABLE (NO. 4 A.W.G.)
- T - 1 CONDUCTOR CABLE (NO. 4 A.W.G.)
- X - 3/4"x10" GROUND ROD
- PS - PROPOSED ELECTRICAL SERVICE
- I/C - INTERCONNECT CABLE



NOTE: EXISTING RIGHT-OF-WAY BASED ON MDSA PLAT NO. 14091.

INTERSECTION DESCRIPTION

I. GENERAL

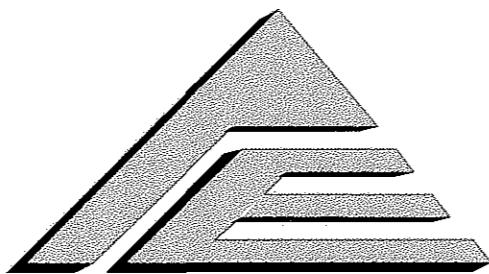
THIS INTERSECTION IS U.S. 40 EAST (WASHINGTON AVENUE) AT U.S. 40 EAST (WEST WASHINGTON STREET), WEST ANTIETAM STREET, AND CITY FIRE STATION COMPANY NO. 4. CONSTRUCTION AT THIS INTERSECTION INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AND INTERCONNECTION WITH THE OTHER SIGNALIZED INTERSECTIONS IN THE NEW CITY-WIDE SYSTEM. IT IS ASSUMED THAT U.S. 40 EAST (WASHINGTON AVENUE) AND U.S. 40 EAST (WASHINGTON STREET) RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION WILL BE PRE-EMPTED IN A NEMA THREE (3) PHASE PRE-TIMED MODE. EASTBOUND U.S. 40 EAST (WASHINGTON AVENUE) AND WEST ANTIETAM STREET WILL OPERATE CONCURRENTLY. EASTBOUND MD. 144 (WEST WASHINGTON STREET) WILL OPERATE SEPARATELY.

THE INTERSECTION WILL BE PRE-EMPTED UPON ACTUATION IN THE FIRE STATION BUILDING. A PUSHBUTTON WILL BE INSTALLED IN THE FIRE STATION BUILDING. UPON PRE-EMPTION, ALL APPROACHES, EXCEPT THE FIRE STATION APPROACH, WILL RECEIVE A STEADY RED DISPLAY. THE FIRE STATION APPROACH WILL RECEIVE A FLASHING YELLOW DISPLAY.

A NEW EIGHT PHASE FULLY ACTUATED CONTROLLER WITH TELEMETRY MODULE HOUSED IN A GROUND MOUNTED CABINET WILL BE INSTALLED.



A/E GROUP, INC.
ENGINEERS • PLANNERS
181 E. Main Street
Westminster, Maryland 21158
A/E Job No. 95-289

REVISIONS	APPROVALS	MDOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION LOG M. 21E04035.46			
	CHIEF, SIGNAL DESIGN SECTION	DRAWN BY: M. GESELL	US 40 East (Washington Ave.) at West Washington St./West Antietam St. /City Fire Station Company No. 4 COUNTY: WASHINGTON		
	ASST. DISTRICT ENGINEER, TRAFFIC	DES. BY: J. LAWRENCE			
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	CHK. BY:			
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY	DATE: 05/30/97 SCALE: 1" = 20'	F.A.P. NO. STPG-218-I(7)E S.H.A. NO. WA9535185	TS NO. 3687	SHEET NO. 24 OF 66